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ABSTRACT

This study is an assessment of the Radiologic Technology program at Los Angeles City College (LACC, California). Four approaches were used to determine the program's effectiveness: (1) analysis of LACC student performance on the American Registry of Radiological Technologists examination; (2) analysis of follow-up data from questionnaires sent to 203 LACC graduates who received their AA in Radiological Technology between 1959 and 1971; (3) obtaining opinions of local hospital administrators; and (4) examining records of students failing the registry examination. Some of the findings, which supported the program's apparent effectiveness, were: (1) average performance on the registry exam was about equal to that of all other California programs and better than that for colleges nationwide; (2) students' grade point average at LACC appeared to be a good predictor of their registry examination score; (3) success at anatomy or physiology is related to success in passing the registry exam; (4) graduates were generally pleased with their training at LACC; and (5) local hospital administrators generally regard the LACC program quite highly. It was recommended that more consideration be given to a requirement of satisfactory completion of anatomy and/or physiology. (RN)

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LOS ANGELES CITY COLLEGE

"THE RADIOLOGIC TECHNOLOGY PROGRAM AT L.A.C.C., 1958-1972"

Research Study #72-12

JC 720 222

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Ben K. Gold
Research Office
October, 1972

"THE RADIOLOGIC TECHNOLOGY PROGRAM AT L.A.C.C., 1958-1972"

PURPOSE OF THE STUDY

This study was initiated at the request of Miss Gertrude Pearson, R.T., Chairman of the Los Angeles City College Radiologic Technology Department, to provide a current appraisal of the program in Radiologic Technology.

Research Study #67-9 studied certain aspects of the Radiologic Technology program from 1958 to 1966. Since 1966 the program has undergone several major changes and it seemed advisable to assess the program as it now functions.

After consultations with Miss Pearson, the following four-pronged study was agreed upon:

A. Analysis of performance of L.A.C.C. graduates on the ARRT (The American Registry of Radiologic Technologists) Registry examinations.

B. Collection and analysis of follow-up data on L.A.C.C. R.T. graduates.

C. Obtaining opinions of local hospital administrative personnel regarding the L.A.C.C. program.

D. Analysis of L.A.C.C. records of students failing the Registry examination.

PROCEDURE OF THE STUDY

A. Annual reports of examinations were obtained from the American Registry of Radiologic Technologists for the semi-annual examinations held in

November, 1968	November, 1970
May, 1969	May, 1971
November, 1969	November, 1971
May, 1970	May, 1972

These reports list standard scores achieved on the examination according to the college or hospital where the training was completed. L.A.C.C. graduates

PROCEDURE OF THE STUDY (continued)

are eligible to take the examination following a fifteen month training period -- thus students who graduate in June usually take the November examination of the following year. A breakdown of scores on specific parts of the examination was furnished by the Registry for the fourteen L.A.C.C. graduates taking the November 1971 examination. These reports from the ARRT furnished the data for the analysis in Part A of the next section.

B. To obtain information about activities of graduates after leaving L.A.C.C., a questionnaire and covering letter (copies appended) were sent to 203* students who received their A.A. in Radiologic Technology between 1959 and 1971. Responses were tallied and analyzed as indicated in Part B of the next section.

C. To obtain opinions of local hospital administrators, letters were sent requesting them to indicate their impressions as to the strengths of weaknesses of the L.A.C.C. program and to offer any general comments they cared to make. These responses are summarized in Part C of the next section.

D. Seven L.A.C.C. graduates were reported by the ARRT as having failed the Registry examination in one of the past administrations of the test. Six of these students were identified by Miss Pearson and their L.A.C.C. records analyzed as shown in Part D of the next section.

FINDINGS

A. Fourteen L.A.C.C. students took the November, 1971 Registry examination. A total of 581 graduates of RT college programs throughout the country took this examination, 126 from California. Table 1 and Figure I summarize performance of these three groups on that examination. Scores given are "standard" scores, with 75 or higher representing a passing grade.

Table 2 presents an analysis by sub-test of the performance of the fourteen L.A.C.C. graduates, while Table 3 summarizes some characteristics and L.A.C.C. records of these students.

* those for whom addresses were available

FINDINGS (continued)

Table 4 indicates the numbers of L.A.C.C. students passing or failing each of the Registry examinations since November, 1968. It should be noted that these results include only those taking the examination for the first time. It is known that at least some of the seven failures retook the examination and passed it.

TABLE 1 - Performance on November, 1971 ARRT Registry Examination

	Standard Score	LACC	All California	All U.S.
	95-100	0	0	1
P	90-94	2	18	65
A	85-89	5	48	158
S	80-84	4	39	171
S	75-79	2	16	95
	70-74	0	1	23
	65-69	1	2	30
F	60-64	0	1	17
A	55-59	0	0	12
I	50-54	0	1	6
L	45-49	0	0	2
	40-44	0	0	1
	Total	14	126	581
	Mean	83.4	84.0	80.9
	Med.	84.5	84.8	82.6
No. of failures		1	5	91
% of failures		7.1%	4.0%	15.7%

FIGURE 1 - Performance on November, 1971 ARRT Registry Examination

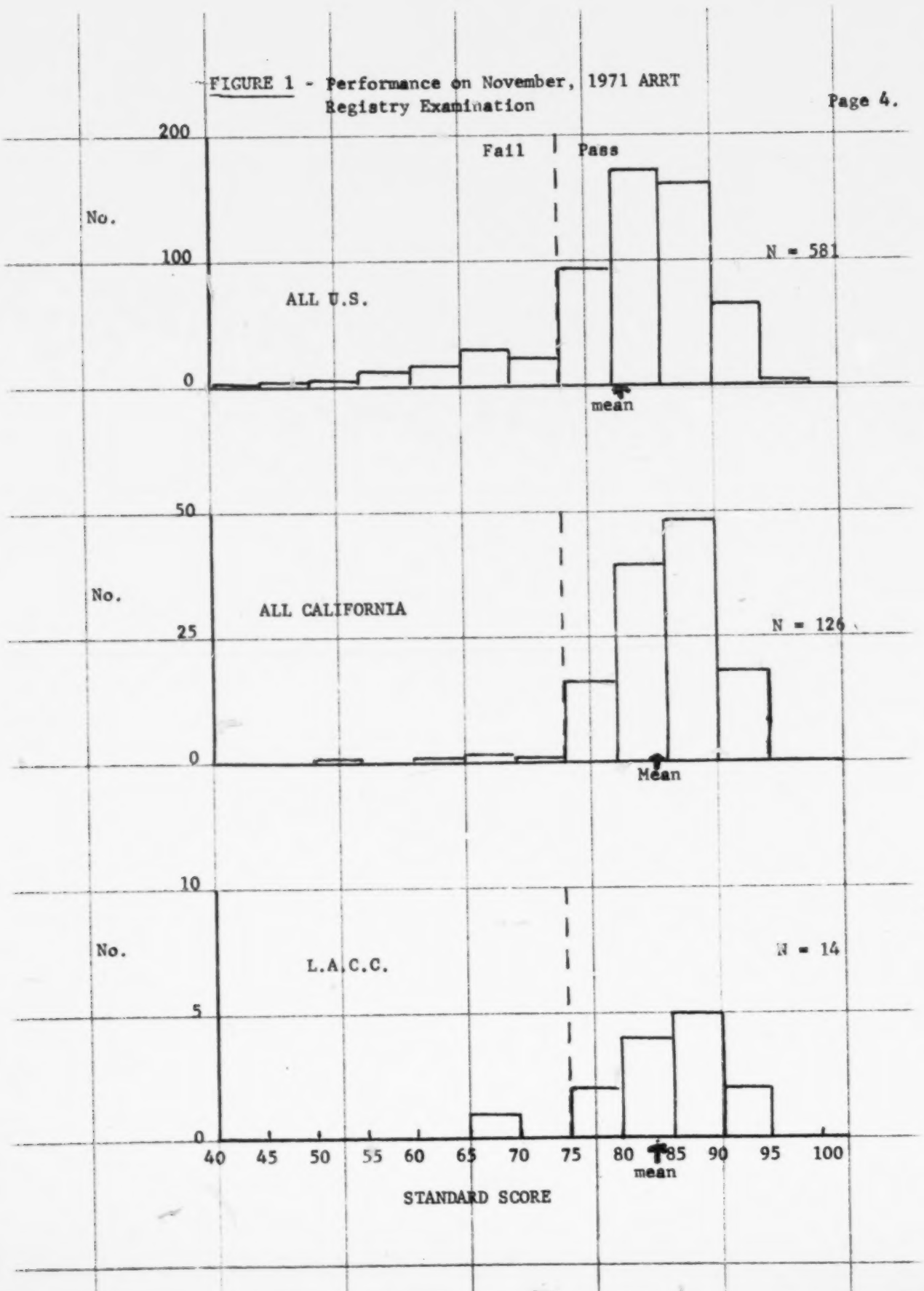

TABLE 2 - Summary of LACC Student Performance on the 1971 American Registry of Radiologic Technologists Examination

Student No.	Exam. %ile	Pass or Fail	No. of* sub-tests Failed	RAW SCORE ON SUBTESTS A	B	C	D	E	F	G	H	I	J	Raw Score Total
4	98	P	0	37	22	34	24	15	9	9	13	4	10	177
8	94	P	0	38	24	30	21	14	12	77	9	5	10	170
7	87	P	0	36	19	34	20	13	13	6	10	5	8	164
14	87	P	0	32	20	34	21	14	11	9	9	5	9	164
3	85	P	0	34	25	29	29	12	12	7	10	5	8	162
11	67	P	0	29	21	28	18	13	11	6	13	3	9	151
13	65	P	1	27	23	30	20	10	11	6	8*	5	10	150
6	57	P	1	31	24	29	16	10	9	6	9	2*	9	145
12	55	P	2	30	23	31	16	10	10	3*	8*	5	8	144
10	50	P	1	27	20	26	15	13	12	5*	10	4	9	141
5	37	P	2	24	20	31	16	8*	6*	7	9	5	7	133
1	34	P	2	28	15*	26	16	12	10	6	7*	3	8	131
9	31	P	4	31	22	19*	16	11	6*	5*	8*	3	8	129
2	9	F	7	23*	14*	20*	11*	11	5*	5*	7*	4	7	107*
maximum possible score				40	30	35	25	15	15	10	15	5	10	200
average percent correct				76	70	82	72	79	65	61	62	82	86	74
mean raw score				30.5	20.9	28.6	17.9	11.9	9.8	6.1	9.3	4.1	8.6	147.7
standard deviation raw score				4.4	3.1	4.5	3.2	1.9	2.4	1.5	1.8	1.0	1.0	18.3
cut-off raw score				23.6	17.7	20.6	14.8	8.8	8.8	5.9	8.9	3.0	5.9	118.0
cut-off percent (raw score)				59	59	59	59	59	59	59	59	59	59	59
number below cut-off				1	2	2	1	1	3	4	5	1	0	1
* below cut-off														

*Sub-test

A. Radiographic Techniques
B. Standard Positioning
C. Anatomy & Physiology
D. X-Ray Physics & Electricity
E. Darkroom
F. Special Procedures
G. Radiation Therapy
H. Radiation Protection
I. Professional Ethics & Related Nursing
J. Medical Terminology

*Sub-test failures are not indicated by examiners. They are figured here on percent equivalents to total score cut-off (17th %ile).

TABLE 3 - Some Characteristics of L.A.C.C. Students Taking the ARRT 1971 Examination

Student No.	Exam. %ile	Sex	Age (6/71)	Date of AA or last sem.	UC ** LACC/Trans.	G.P.A. (LACC)	Grade in Anatomy 1	Grade in Physiology 1	Grade in Physics 12
4	98	M	28	6/70	68	3.90	A	A	A
8	94	F	26	6/70*	26/42	3.65	B	C	B
7	87	F	22	1/69	37/23	3.11	C	C	C
14	87	F	23	1/71	42½/27½	2.99	C	C	-
3	85	F	22	6/70	69/6	2.70	W,F,C	-	C
11	67	F	22	6/71*	31/25½	2.78	C	C	C
13	65	F	21	6/71*	33	2.42	D,C	C	B
6	57	M	21	6/70	63	2.37	C	D	C
12	55	M	27	6/70	57½/12	2.77	F,D	C	-
10	50	M	23	6/70	42½/22	2.33	D	D	C
5	37	F	35	6/70	61/15	2.37	B	C	C
1	34	M	20	1/71	64	2.47	C	C	-
9	31	M	20	6/71*	42½	1.81	W,W,F,W	-	C
2	9	M	32	6/70*	30	1.58	F	W	C

* = non-graduate ** units completed

SUMMARY

Sex	Med.Age	Rec'd. AA	Aver. UC	Aver.GPA	Aver. GPA - Anat.	Physio.	- Physics
7 M	22.5	9	LACC 46.9	2.66	1.59	2.00	2.36
7 F			Trans. 12.4	2.07			
50.0%		64.3%	Both 59.3	2.54			

TABLE 4 - L.A.C.C. Performance on the ARRT Registry Examinations, 1968-1971 (percents in parentheses)

Date of Test	No. Passed		No. Failed		Total
November, 1968	4	(80)	1	(20)	5
May, 1969	0	(0)	1	(100)	1
November, 1969	9	(90)	1	(10)	10
May, 1970	-	----	-	----	0
November, 1970	9	(82)	2	(18)	11
May, 1971	0	(0)	1	(100)	1
November, 1971	13	(93)	1	(7)	14
May, 1972	0	----	-	----	--
Total	35	(83)	7	(17)	42

B. Of the 203 questionnaires sent to graduates of the L.A.C.C. Radiologic Technology program, 26 were returned by the Post Office as non-deliverable, and 59 completed responses were received, for a response rate of about one-third. Surprisingly the response rate was no greater for recent graduates than for those who graduated some years ago. Table 5 details these response rates. Table 6 presents a summary of checked responses to the questionnaire. Open-ended question comments have been forwarded to the Radiologic Technology Department.

TABLE 5 - Percentage of Students Responding to Questionnaire by Year of Completion of RT Course at L.A.C.C.

Year Completed L.A.C.C.	No. Sent	Total returned (undeliverable)	Total No. Who Responded	Response Rate*
1959	3	1	1	50.0%
1960	4	0	1	25.0%
1961	4	0	1	25.0%
1962	5	1	1	25.0%
1963	5	1	2	50.0%
1964	4	0	4	100.0%
1965	8	0	4	50.0%
1966	22	3	7	36.8%
1967	17	5	5	41.7%
1968	23	2	8	38.1%
1969	31	5	6	23.1%
1970	30	4	7	26.9%
1971	48	4	12	27.3%
All years (total)	203	26	59	33.3%

* based on questionnaires presumbably delivered

TABLE 6 - Summary of Radiologic Technology Survey Responses, October, 1971

1. Year completed RT or NMT at L.A.C.C.

Sex	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	Total
M				1	1	1	3	1	1	2	2	4	8	24
F	1	1	1		1	3	1	6	4	6	4	3	4	35
T	1	1	1	1	2	4	4	7	5	8	6	7	12	59

2. Year completed in-service training (by September 1, 1971)

M	-	-	-	-	-	1	2	1	2	2	1	3	1	13
F	-	-	1	1	1	-	2	2	1	6	8	5	1	28
T	-	-	1	1	1	1	4	3	3	8	9	3	1	41

In addition: 10 Males and 7 Females were still in training after September 1, 1971.
1 Male had not yet been accepted for in-service training.

Hospital where training was completed:	M	F	Total
UCLA (Medical Center)	1	6	7
LA/USC (Medical Center)	5	4	9
Southern Calif. Memorial Hospital	2	5	7
Kaiser Hospital	3	6	9
St Vincent Hospital		3	3
St. Johns Hospital		1	1
Childrens Hospital		1	1
California Hospital		1	1
Wadsworth Venterans Hospital	1		1
None given	1	1	2
TOTALS	13	28	41

Hospital where still in training:	M	F	Total
LA/USC (Medical Center)	4	1	5
Southern California Memorial Hospital	1	1	2
Kaiser Hospital	1	1	2
St. Vincent Hospital		2	2
Hollywood Presbyterian Hospital	1		1
Cedars Hospital		1	1
Not stated	3	1	4
TOTALS	10	7	17

TABLE 6 (continued)

3. Employed as Radiologic Technologist?

YES Male - 13 Female - 22 Total - 35

Description of present employment

MALES

Administrative Director, Instructor in Radiology Department of Radiology, Arizona Medical Center, University Hospital, Tuscon
Director, School of Radiologic Technology, Harbor General Hospital, Torrance
Nuclear Medical Technologist

FEMALES

X-Ray Technologist
X-Ray Technologist, Neuro-Radiology
Pediatrics X-Ray Technologist (part-time)
X-Ray Technologist at large walk-in clinic (diagnostic X-Ray)
Part-time Technologist at 85 bed geriatric hospital
In charge of small radiological office, part-time
Radiologic Technologist in section of Radiology Department
Administrative Assistant to Radiologist
Only Technologist at Kaiser Pasadena Clinic
Senior Nuclear Technologist - Chief Nuclear Medicine

NO Male - 12 Female - 12 Total - 24

Description of present employment:

MALES

Still in training (or hoping to complete in-service training) - 11

FEMALES

Still in training - 7
Homemaker - 2 (1 worked as R.T. for 3 years)
Law student
Member of Women Army Corps
Postal worker
Document Shipment Editor

4. How long employed as Radiologic Technologist?

	2 years or less	3 - 4 years	5-6 years	7-8 years	9-10 years	10 years +	Total
M	5	4	3	1	0	0	13
F	9	7	4	1	0	1	22
Total	14	11	7	2	0	1	35

Table 6 (continued)

5. Registered with ARRT?

Yes	Male 13	No	Male 0
	Female 20		Female 2
	Total 33		Total 2

6. Present job level:

	Male	Female	Total
Administrative Assistant to Radiologist	1	1	1
Chief Radiologic Technologist		1	1
Tech. Director of Education - R.T.	2		2
Assistant Chief, R.T.			0
Supervisor R.T.		1	1
Senior Radiologic Technologist (Specialist)	1	5	6
Senior Radiologic Technologist (Instructor)		2	2
Senior Radiologic Technologist	1	2	3
Staff Radiologic Technologist	7	8	15
Other	1	1	2
TOTAL	13	22	35

7. Annual income (from basic job)

	Under $6,000	$6,000-6,999	$7,000-7,999	$8,000 8,999	$9,000-10,000	$11,000-11,999	$12,000-12,999	$13,000 or over	total
M	1	0	2	2	6	0	0	2	13
F	3	0	3	6	10	0	0	0	22
T	4	0	5	8	16	0	0	2	25

8. Additional income from overtime RT work:

YES	Male 9	NO	Male 4
	Female 9		Female 13
	Total 18		Total 17

Estimated amount of overtime income:

Male	Female
$4,000	$2,500
3,000	2,236
2,000 (2)	1,200 (3)
1,200	1,000
5 to 600	3 to 600
4 to 400	3 to 500
25 a call	500
no amount given (1)	

9. Additional college work since L.A.C.C.:

	None	Some toward BA	Completed BA
Male	3	9	1
Female	10	12	0
Total	13	21	1

C. Hospital administrators were requested to indicate their impressions of the L.A.C.C. program by reacting to three general opinion questions: (1) strengths shown by L.A.C.C. students: (2) weaknesses shown by L.A.C.C. students: (3) general comments toward the L.A.C.C. program.

Responses were received from administrators at the following hospitals:

Kaiser Foundation Hospital
Los Angeles County USC Medical Center
Memorial Hospital of Southern California
Northridge Foundation Hospital
Pacoima Memorial Lutheran Hospital
Queen of the Angels Hospital
St. Vincent's Hospital
UCLA Medical Center

Comments of these hospital administrators (edited in some instances for brevity) are presented in Table 7.

TABLE 7 - Responses to Hospital Administrator Survey

Strengths

Usually well adjusted -- have desire and ability to learn, good background in anatomy and positioning -- cooperative professional manner.

Varies with individual -- some have strong incentive and are willing to learn -- others just want to slide by.

Adequate background in anatomy, physics, and positioning evidence, sound knowledge of principles and fundamentals of RT -- thorough understanding of terminology -- well motivated to patient and relationship, hospital practice and procedure -- and this allows successful practical implementation.

Show a general academic knowledge and have good study habits with an incentive to learn more about the field. They also tend to continue their schooling.

Seem to catch on very fast -- should keep an eye on the weak ones and make sure they keep up with the strong ones.

All our students come from L.A.C.C.

Weaknesses

Show some weakness in the care, handling, and safety of the patients.

Physics seems to be a weakness on required exams -- could do better in approach to handling patients -- tact and showinc concern.

In general, students are weak in mathematics and anatomy -- in some instances the physical demands of RT's come as quite a surprise.

Weaknesses (continued)

At the time they begin on-the job training something has not been retained because classes may have been held as long as two years previous -- also do not retain some important aspects of the training since they cannot apply their newly learned theory with actual work experience.
None has shown weakness but tell them to be able to take criticism and not be afraid to get bawled out once in a while.
Anatomy and positioning techniques.

General Comments

I consider the L.A.C.C. program very good.
A very worthwhile and well run program.
Overall, the program is good except that closer screening of people into this field could show some improvement -- sometimes a person realizes that RT is not the field for him but is in too deep to change his major.
Program is quite strong and I see no areas that need improvement.
A better than average program.
Would suggest investigation into a new type program offered by some other junior college where the students spend half day sessions at the college and also work at the hospital -- they also work at the hospitals during the summer months -- at the end of around 26 months they receive both their AA degree and have also finished their on-the-job training requirements.
Perhaps more time should be spent on the type of positioning you would find in a hospital, not the book, e.g., cross table X-Rays if patient can't move or supine chest if patient can't sit up, etc.
More awareness on the students' part concerning what really goes on in a hospital situation.
Would like to see L.A.C.C. become as selective as possible -- RT training should involve hospital training as soon as possible, maybe just six months -- newer RT courses should include business, personnel management, radiology assistant in fluroscopy, surgical technique, etc.

D. Six of the seven failures on the Registry Examination over the past five years were identified and their L.A.C.C. records examined for clues as to explanation for their failure. Table 8 presents courses and grades earned while at L.A.C.C. by these six students.

TABLE 8 - L.A.C.C. Performance of Students Failing the ARRT Registry Examination

Course	Student #1	2	3	4	5	6
Anatomy 1	F	C	C		D,F	D
Physiology 1	W	D	D		B	D
Physics 12	C	C	C		B	C
Psychology 1	W,W		D	D	D	B
English 21	C			D	B	B
English 1			C			
Health 10	D	C	C	C	C	B
Chemistry 11					D	
R.T. 1	A	B	C	B	B	C
R.T. 2	C	C	C	C	Inc.C	B
R.T. 3	C	A	C	B	C	B
R.T. 4	D	B	B		C	B
R.T. 5	C	B	D	B	C	W,A
R.T. 6	C	B	B	B	B	B
R.T. 7	D				C	B
R.T. 8						C
R.T. 9				C		
R.T. 13						C
Mathematics 37	D				C	
Sociology	W					
Biology 32		W				
Psychology 20		B			C	
Speech 3		A				
Nursing 44		B	D	C		
Nursing 13		C				
History 12		W	D		C	C
Mathematics 31			F,C		C	D
Speech 1			C		C	
History 11			C	C	C	C
Music 89		A,A				
Home Economics 31			C			
Theatre Arts 4			A			
History 16		A				
History 42		A				
Mathematics 30			W			
Portuguese 1					B	
Portuguese 2				D		
Speech 9				D		

Continued on next page

TABLE 8 (continued)

Course	Student #1	2	3	4	5	6
Geography 2				C		
Social Science 14				C		
History 5				C		
Spanish 3				B		
History 31					C	
Psychology 30					A	
Speech 21					C	
Psychology 9					C	
Speech 31						B
Speech 13						B
Secretarial Science 60						B
Overall GPA	1.73	2.72	2.00	2.05	2.07	2.40
Graduated?	No	No	Yes	Yes	Yes	Yes

SUMMARY AND CONCLUSIONS

This study attempts to appraise the current status of the Radiologic Technology program at L.A.C.C. It was decided to try four approaches in the hope of obtaining an overall estimate of the program's effectiveness and of pinpointing any weaknesses which might then be corrected. The four approaches included: analysis of L.A.C.C. performance on ARRT Registry examinations, follow-up information on program graduates, opinions of administrators of local hospitals providing training for L.A.C.C. graduates, and an analysis of L.A.C.C. records of students failing the Registry examination.

Following are some observations based on the findings of the study:

(1) In the past five years, 149 students have completed the X-Ray Technology curriculum at L.A.C.C. 48 students graduated in 1971, a 60% increase over 1970.

(2) About half of the graduates continue directly with the 15 month training period and take the Registry examination the November following the completion of their training. Most of the remainder transfer to a four-year college to continue their education, or take the training at a later date.

SUMMARY AND CONCLUSIONS (continued)

(3) 83% of the L.A.C.C. X-Ray graduates who took the Registry examination during 1968-1971 passed it the first time. Mean standard score performance in 1971 was about equal to that of graduates from all California college X-Ray programs and better than that for colleges nationwide.

(4) Of the ten subtests comprising the Registry examination, sections on "Radiation Protection" and Radiation Therapy" offered most difficulty to L.A.C.C. students tested in 1971. Students performed highest on "Medical Technology," "Anatomy and Physiology" and "Professional Ethnics and Related Nursing."

(5) The student's grade point average at L.A.C.C. appears to be an excellent predictor of his Registry examination score (rank correlation coefficient = 0.91).

(6) Apparently success in Anatomy or Physiology is related to success in passing the Registry examination. None of six students who failed the examination had completed both courses with C's or above. Only two of the six had completed Anatomy with C or better, only one in Physiology.

(7) Median annual income reported by graduates employed as Radiologic Technologists was $8,400. Median number of years employed as an RT was three years. About half reported they earned overtime pay as an RT, amounts ranging from $400 to $4,000.

(8) Graduates are generally pleased with their training at LACC. Most often stated suggestion was that practical aspects should be emphasized more.

(9) Local hospital administrators generally regard the LACC program quite highly. Most often stated suggestions seemed to be that actual hospital experience be started earlier, if possible, and more time be spent on positioning techniques.

In summary, the L.A.C.C. Radiologic Technology program is doing an effective job of preparing students to become Radiologic Technologists. Like other L.A.C.C. curricula, its stress upon general education as well as technical courses permits the student to change easily to a different major if he so desires, and also permits the program graduate to pursue

SUMMARY AND CONCLUSIONS (continued)

more advanced education with little (if any) loss of credit. Consequently, not only has the program produced dozens of competent technologists, including many of minority background, now working in the Radiology field, but many graduates have moved to administrative positions in the field, while still others have moved into areas such as medicine, university teaching, and radiological physics.

It is suggested that members of the Radiologic Technology Department read carefully the comments of graduates and hospital administrators with a view toward implementing, where possible and desirable, those suggestions which are appropriate within the framework of the "open-end" philosophy just described.

RECOMMENDATIONS

On the basis of the findings of this study (and the earlier study), it is recommended that:

> if additional selectivity is to be required for admitting applicants to the program, more consideration be given to a requirement of satisfactory completion of Anatomy and/or Physiology and to the student's overall grade point average, and less consideration to test scores.

* * * * * * * * * * * *

LOS ANGELES CITY COLLEGE
855 North Vermont Avenue
Los Angeles, California 90029

August, 1971

Dear

In an effort to assess the effectiveness of the Radiologic Technology program at Los Angeles City College and thereby make it more helpful to future students, we are asking your assistance.

We find feedback information from people like yourself extremely valuable in evaluating our programs and planning for the future.

Would you please complete the enclosed brief questionnaire and return it to us in the enclosed stamped self-addressed envelop?

Thank you for your help.

Sincerely,

Ben K. Gold
Director of Research

BKG/b
Enclosures

LOS ANGELES CITY COLLEGE
1971 Radiologic Technology Survey

NAME (optional) _____
(Last) (First) (Middle)

1. What year did you complete your R.T. work at L.A.C.C.? _____
2. What year did you complete your in-service training? _____
   At what hospital? _____
3. Are you employed as an R. T.? Yes _____ No_____

   If yes, please complete the questions below.
   If no, please describe your present job and return the questionnaire.

   Present job: _____

   _____

4. How long have you been employed as an R.T?

   2 years or less__ 3-4 years __ 5-6 years ___ 7-8 years___
   9-10 years ____ over 10 years___

5. Are you registered with ARRT? Yes___ No___

6. What is your present job level?

   ____ Administrative Assistant to the Radiologist
   ____ Chief R. T.
   ____ Tech. Director of Education - R. T.
   ____ Assistant Chief R.T.
   ____ Supervisor R.T.
   ____ Senior R. T. (Specialist)
   ____ Senior R. T. (Instructor)
   ____ Senior R. T.
   ____ Staff R. T.
   ____ Other (please describe) _____

   _____

7. What is your annual income (from your basic job)?

   less than $6000__ $6000-6999__ $7000-7999__ $8000-8999__
   $9000-10,999___ $11,000-11,999___ $12,000-12,999__ $13,000 or over__

8. Do you earn additional income doing R. T. work on an overtime basis?
   Yes__ No__ If yes, please estimate annual dollar amount _____

9. Have you taken any additional college work since leaving L.A.C.C.?

   None ____
   Some work towards BA degree_____
   Completed BA degree___

10. Upon reflection do you have any comments that will help us improve our program? (use back of page)

Thank you for your cooperation.

Please return to Ben K. Gold, Director of Research, Los Angeles City College
855 North Vermont Avenue, Los Angeles, California 90029